

WHAT IS CLAIMED IS:

1. A protective film agent applied to an outer surface of an item to be protected, or applied to a regional outer surface of said item except for a specified portion, so as to form a protective layer,
said protective film agent comprising:
a urethane liquid mixed with a urethane-based cure agent which serves as a curability enhancement.
2. The protective film agent applied to an outer surface of an item to be protected, or applied to a regional outer surface of said item except for a specified portion,
a liquid mixture mixed with a curability enhancement;
said liquid mixture prepared by urethane methyl-ethyl ketone and ethyl acetate, and said curability enhancement prepared by an isocyanate-based compound and ethyl acetate.
3. The protective film agent according to claim 2, wherein said liquid mixture includes said urethane of 10-30 % by weight, said methyl-ethyl ketone of 35-45 % by weight and said ethyl acetate of 34-45 % by weight; and said curability enhancement includes said isocyanate-based compound of 2-30 % by weight and said ethyl acetate of 70-98 % by weight.
4. The protective film agent according to claims 1, said protective layer measures 0.1-3.0 mm in thickness.
5. The protective film agent according to claim 3, wherein said isocyanate-based compound is 2-4-toluene-di-isocyanate.
6. The protective film agent according to claim 1, wherein

a mold release agent including a wax layer and previously applied to said outer surface of said item to be protected, or applied to a regional outer surface of said item except for said specified portion;

7. The protective film agent according to claim 1 or 2, wherein an adhesive tape is separably provided over said specified portion of said item.

8. A method for forming a protective layer applied to an outer surface of an item to be protected, or applied to a regional outer surface of said item except for a specified portion, so as to form a protective layer, in which said protective film agent provided by a urethane liquid mixed with a urethane-based cure agent which serves as a curability enhancement.

9. A method for forming a protective layer applied to an outer surface of an item to be protected, or applied to a regional outer surface of said item except for a specified portion, in which said protective film agent is provided by a liquid mixture mixed with a curability enhancement, and said liquid mixture prepared by urethane methyl-ethyl ketone and ethyl acetate, and said curability enhancement prepared by an isocyanate-based compound and ethyl acetate.

10. The method for forming a protective layer according to claim 9, wherein said liquid mixture includes said urethane of 10-30 % by weight, said methyl-ethyl ketone of 35-45 % by weight and said ethyl acetate of 34-45 % by weight; and said curability enhancement includes said isocyanate-based

compound of 2-30 % by weight and said ethyl acetate of 70-98 % by weight.

11. The method of forming a protective layer according to claim 8 or 9, said protective layer is formed on an outer surface of a die mold to have a thickness of 0.1-3.0 mm by means of a spray gun.

12. The method of forming a protective layer according to claim 8 or 9, wherein said protective film agent is stored by a hermetically sealed tank which is connected to a container in which a diluted liquid is stored, and said diluted liquid is fed vis said container to said protective film agent within said tank to adjust a viscosity of said protective film agent when an electromagnetic valve is energized.

13. The method of forming a protective layer according to claim 8 or 9, wherein the protective film agent with a relatively high viscosity is stored in a closed type reservoir, and the protective film agent with a relatively low viscosity is selectively stored in an open type reservoir, and said closed type reservoir is pressurized by a compressor when said protective film agent is applied by using said closed type reservoir.